Service Guide

Service guide files and updates are available on the ACER/CSD web; for more information, please refer to http://csd.acer.com.tw

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Conventions

The following conventions are used in this manual:

SCREEN MESSAGES	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional Information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPOTENT	Reminds you to do specific actions, relevant to the accomplishment of procedure.

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Preface

Before using this information and the product it supports, please read the following general information.

1. This service guide provides you with all technical information relating to the BASIC CONFIGURATION decide for Acer"s " global" product offering. To better fit local market requirement and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine. These LOCALIZED FEATURES will NOT be recovered in this generic service guide. In such cases, please contact your regional office or the responsible personnel/channel to provide you with further technical details.

2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regionalweb or channel. If, for whatever reason, a part number change is made, it will not be noticed in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDER, your Acer office may have a DIFFERENT part number code to those given in the FRU of this printed Service Guide. You must use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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Overview

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b. Product six view and description
c. System block diagram

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b. Service tool SOP

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a. Disassembly and Assembly SOP
b. Required tools and screws

Chapter 4:

Diagnostic Tool SOP

Chapter 5:

Serial Number Definition

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a. Exploded Diagram and Description
b. SPL List

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Chapter 1:

a. Product Features / HW Spec

System	
Operating System	Android Jelly Bean system (4.2)
Processor	CPU(BGA) Intel Atom Z2560 5oC 1.6G 3.5W Cloverview 5GX 544 (1 MB L2 cache, 1.6 GHz Intel® Hyper-Threading Technology, LPDDR2 1066 MHz)
Memory	• RAM ■ 1 GB of POP ON LPDDR2 memory • eMMC ■ 8GB ■ 16GB (optional)
Display	
Display	Shenzhen K&D Technology Co. Ltd KD070D21-39NA-A16 7" 800x1280, Color TFT-LCD with LED Backlight Design, MIPI interface
Resolution	800 x 3 (RGB) x 1280
View angle	Wide view angle 85/85/85/8S degree
Typical backlight	LCM 310(min)/340 (typ) (cd/m2)
Pixel Pitch	0.1S0 (W) x 0.150 (H) mm
Contrast ratio	800:1
Touch Panel	Capacitive type, G/G solution, Driver IC: Focaltech FTS406 10 point Touch panel
Mechanical	
Dimensions	120 (W) x 197.S (L) x 8.9S (T) mm
Weight	< 320±Sg
Modem	
3G	N/A
LTE	N/A
Antenna performance	
N/A	
Wireless LAN 802.11 b/g/n WiFi	
Module	Broadcom BCM4330
Frequency range	Support 2.4GHz band
Data Rates	802.11b: 11Mbps 802.11g: S4Mbps 802.11n: MCS 0~7
Operating Range	Indoor <= 100m
Output Power	11b : 1SdBm ± 3dB 11g : 14dBm ± 2dB

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	11n : 11dBm ± 2dB
Receive Sensitivity	802.11b: under -83dBbm at 11Mbps
	802.11g: under -70dBm at S4Mbps
	802.11n: under -67dBm at MCS 7 (2.4GHz only)
Antenna	Single antenna (without diversity)
	Support 2.4GHz band.
	Performance should meet test summary document released by Acer DQM.
Bluetooth® 3.0	
Module	Broadcom BCM4330
MAC address	Device must contain Bluetooth MAC address before shipment
Support Profiles	• A2DP 1.2 (Advanced Audio Distribution Profile) • AVCTP 1.0 (Audio/Video Control Transport Protocol) • AVDTP 1.2 (Audio/Video Distribution Transport Protocol) • AVRCP 1.0 (Audio/Video Remote Control Profile) • OBEX 1.0 • PAN 1.0 • PBAP 1.1
Frequency Range	2.4 GHz (2.400 ~ 2.483S GHz)
Modulation	GFSK, π/4 DQPSK and 8DPSK
Channel	79 channels
Data Rates	Basic data rates: GFSK (1Mbps)
	EDR data rates: π/4 DQPSK (2Mbps) and 8DPSK (3Mbps)
Operating Range	10m
Output Power	Class 2 (-6dBm~4dBm)
Receive Sensitivity	Under –80 dBm, BER of 0.1%
Antenna	Share the same antenna from WiFi
	Performance should meet test summary document released by Acer DQM.
GPS	
Chipset	WIFI SKU: SiRFstar CSRG0St-WLCSP (Support GPS & GNSS)
Channel	Tracking: 36 (running concurrently with the acquisition channels) Acquisition: 100-200 (flexible non-real time architecture)
Sensitivity	High-sensitivity tracking to -16S dBm
Accuracy	Hot start: less than S seconds (* subject to test environments)
	Warm start: less than S seconds (* subject to test environments)
	Cold start: less than 3S seconds (* subject to test environments)
	Position: within 10m for 90%
	Velocity: 0.1m/s (* subject to test environments)
Protocol	Available in the Host-based SiRFnav software
	The protocol function provides the capability to input and output messages that conform to the required protocols, including OSP and NMEA

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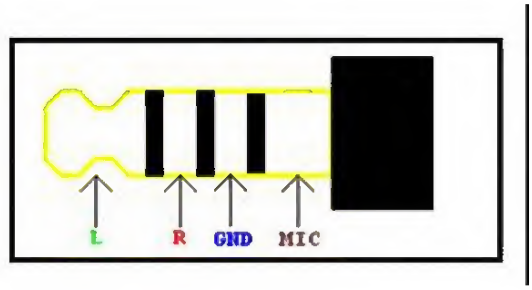
Antenna	Frequency: 1.S7S GHz~1.612GHz (Support GPS & GNSS)
	VSWR 2：1
	Performance should meet test summary document released by Acer DQM.
	Pattern Type: Omni-directional
Battery	
Battery Capacity	1. Rechargeable Lithium-ion Polymer battery Mcnair MLP2964137 (1S1P), 14Wh @3680mAh 2. Rechargeable Lithium-ion Polymer battery Oceansun 316S142P (1S1P), 14.6Wh @38S0mAh Rechargeable /non-replaceable battery pack
Battery Life (main source)	Standby time on fly mode: min 1S88 hours
	Video playback: Min. 7.S hours when play 720P H.264 video playback on system (not streaming, Wi-Fi/3G/BT off, total solution 12S nits)
	Youtube playback 720p video min. 7 hours via WIFI.
	Detailed criterion defined in the test summary document released by Acer DQM.
Battery low	Two battery level 1.Battery low: when battery capacity is 1S % 2.Battery very low: when battery capacity is 4 %
Charging Time	1 hour charging to 30% capacity (when in the dark mode) 4.S hours charge from empty to full by AC adapter (when in the dark/suspend mode)
Battery Protection	Protection for overheat, overcharge, over-discharge, over- current, over-voltage
Temperature	Battery: (1) Operating Temperature Charge: 0℃ ~ 4S℃ Discharge: -20℃ ~ 60℃ Storage Temperature: -20℃ ~ 4S℃ < 1 month ; percentage recoverable capacity 90%

Audio

- Dual speaker: 0.S W
- Audio Jack : 3.Smm 4 ring earphones with microphone Jack

Pin define:



- [VoIP-headset] Headset Sending loudness should be 3dB~13dB and Headset Receiving loudness

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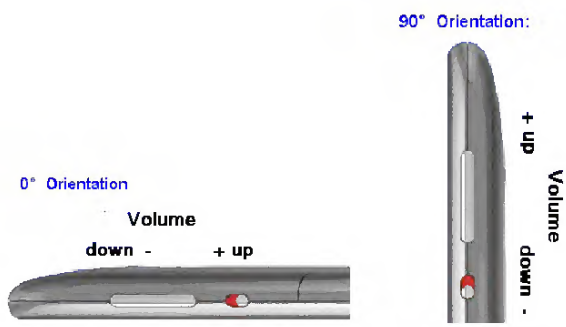
shouldn't be over -13dB.

- [VoIP-handheld hands-free] Handheld hands-free sending loudness should be 15dB at 30cm and handheld hands-free receiving loudness should be 10dB at 30cm.
- Headphone application must meet EN50332.
- Single analog Microphone.
- ASR assist

Camera	
Camera	• Front camera : 0.3MP (640x480) Camera with Fix Focus (OV7695) • Rear camera : 2MP Camera with Fix Focus (OV267S/ OV26S5)
Button	

POWER	• Long press > 1 second (±10%) to power on (when device is off).
	• Long press 1 second to show power-off dialog (when device is on even in lock state)
	• Press to suspend the device (when device is on)
	• Press to resume the device (when device is in suspend mode)
	  ■ Once if the system resumes, system will be back to lock screen.
	  ■ If system is in lock screen, without unlock by user, the system will suspend after 10 seconds
	• Long press 5 seconds (±1%) to force power-off device (when device is on, or in power-on procedure, or in lock state)
	• The method to lunch boot menu:
	  ■ Hold volume up and press power key for 1 second
	  ■ Release power key
	  ■ Release volume up

Volume UP/Down	**Volume up/down:** Press to increase/decrease the volume • Press upper key to volume up in landscape mode, both of 0° orientation and 180° orientation; The other to volume down. • Press the right key to volume up in portray mode, both of 90° orientation and 270° orientation; The other to volume down. ***[the below diograms are for reference only]*** 

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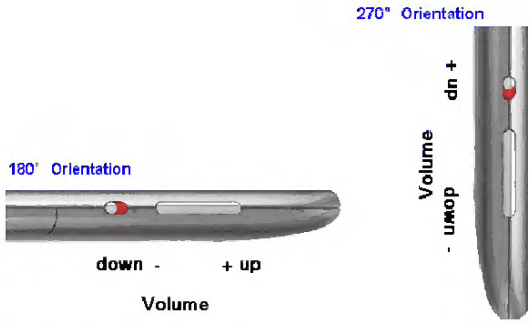
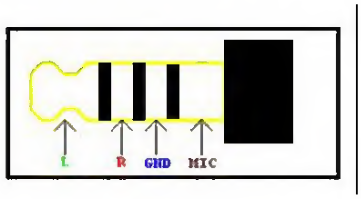
	
Screen lock	N/A
Shutdown hole	Press to turn off the system
LED Indication	
	N/A
Connector	
USB	NA
Micro USB	• Micro-USB 2.0, OTG • VID: 0S02 • Life cycle: Min. rating of 10K connect / disconnect cycles
HDMI	N/A
Audio Jack	• 3.Smm Audio Jack 4ring (with Mic) 
Micro SD connector	• MicroSD memory card up to 32G (SDHC 2.0 compatible) (TBC with Intel) • SD 3.0 compatible • Support hot-plug • Push-push type connector • Read Micro SD cards formatted: FAT / FAT32 / NTFS
Sensor	
G-Sensor	Bosch BMA2S0E
eCompass	N/A
Gyro-meter	N/A
P-Sensor	N/A
Certification	
ESD	Requirement should meet test summary document released by Acer DQM.
Certification	• CE / FCC / IC / NCC / CB / BSMI / BQB / WiFi / WHQL • LTA • Country List: Defined in the document "*Ducati country list*"
Accessory	

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Accessories (in box)	• USB Cable • Charger + Plug • QSG
Accessories (optional)	• World traveler adapter • Protective case • Protective film set • Power bank
Others	
Vibrator	• N/A

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b. Product six view and description

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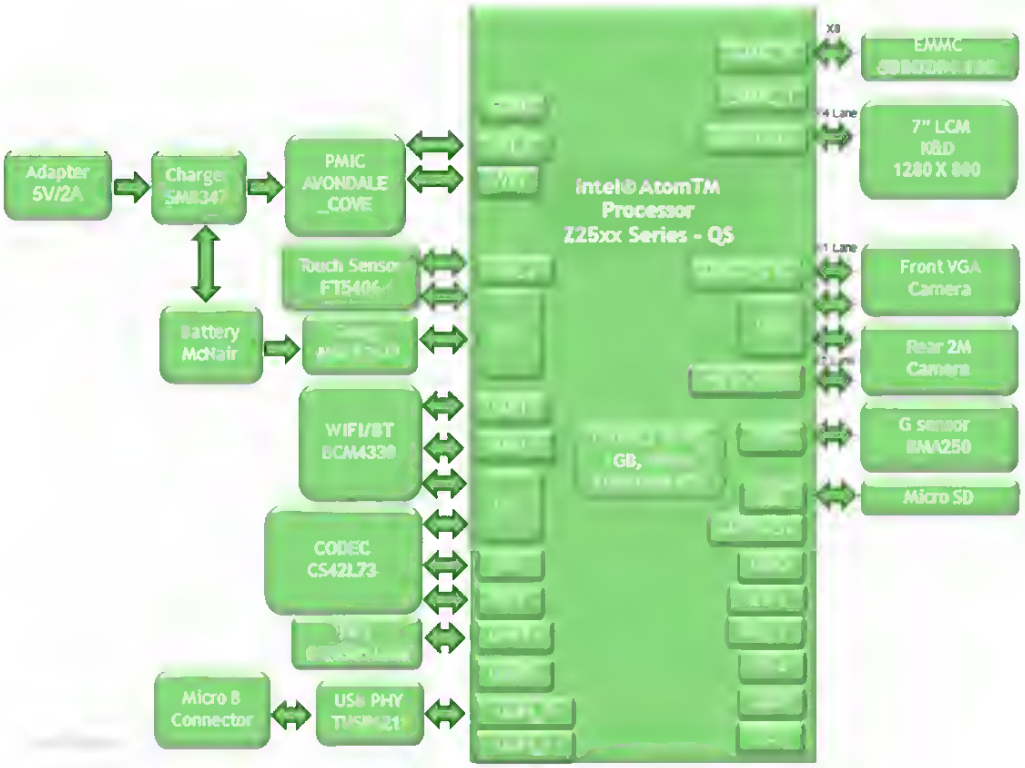
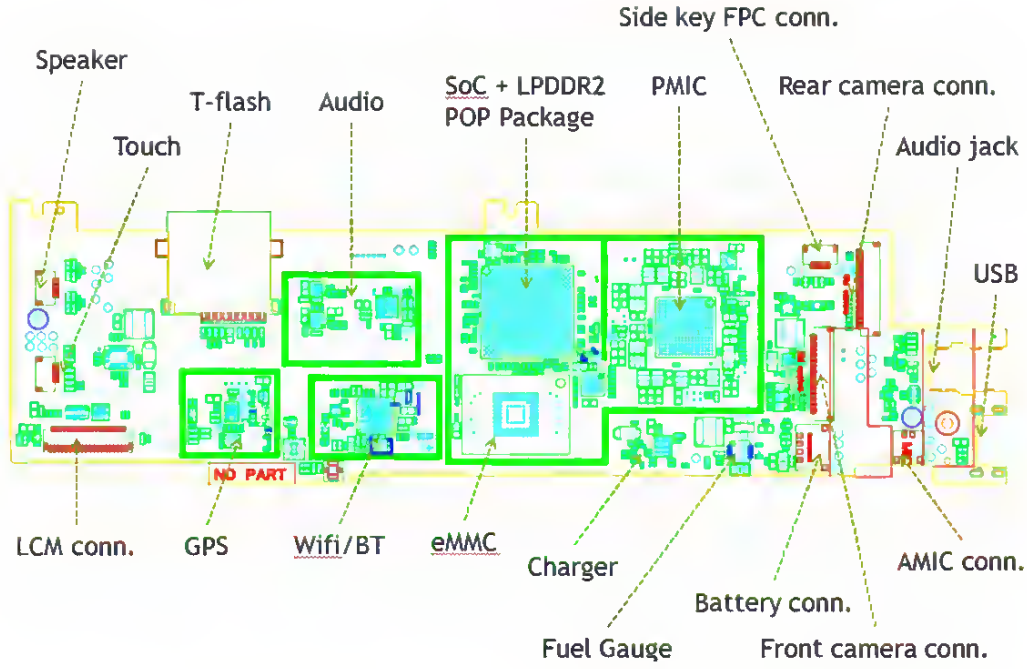
c. Block Diagram





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Chapter 2:

a. Software Upgrade SOP

Preparation:

- Install USB driver, unzip the follow two driver and click to install.

IntelAndroidDrvSetup1.3.3.exe.zip

iSocUSB-Driver-Setup-1.0.3.exe.zip

- Install Download tool. click to install.

PhoneFlashTool_4.2.1.0_external_win32.exe

- Modify Windows register table

Export register table--RegHack.reg，then reboot the PC.

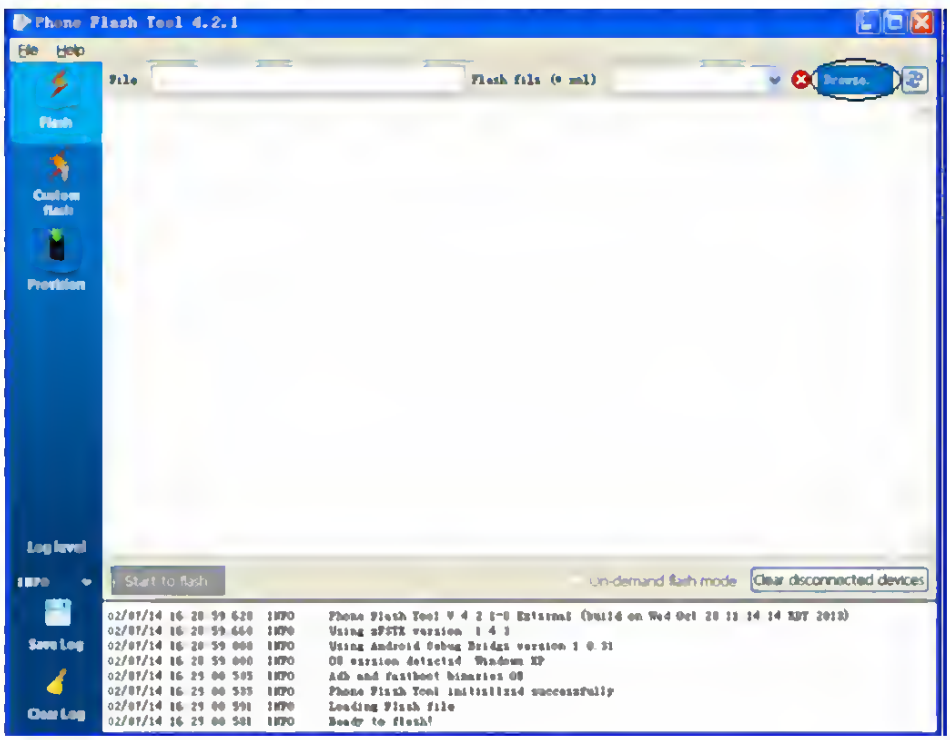
- Unzip the EUU（shipping image and Service ROM（factory image）to EUU directory and Service ROM directory .

Vespa SW download step

一. Update to new EUU

1. Open PhoneFlashTool4.2.1.

2. Click Phone flash tool "Browser"button，select flash.xmlfrom EUU directory. Then Phone flash tool will display it is ready to download SW. Here we assume that your Ducati device has EUU image already or has the service ROM image already


Phone Flash Tool 4.2.1
File Help
File
Flash file (*.xml)
Browse...
Flash
Custom flash
Partition
Log level
INFO
Start to flash
On-demand flash mode
Clear disconnected devices
Save Log
Clear Log
02/07/14 16:28:59:620 INFO Phone Flash Tool V 4.2.1-0 External (build on Wed Oct 23 11:14:14 EDT 2013)
02/07/14 16:28:59:660 INFO Using xFSTK version 1.4.1
02/07/14 16:28:59:000 INFO Using Android Debug Bridge version 1.0.31
02/07/14 16:28:59:000 INFO OS version detected: Windows XP
02/07/14 16:29:00:505 INFO Adb and fastboot binaries OK
02/07/14 16:29:00:535 INFO Phone Flash Tool initialized successfully
02/07/14 16:29:00:991 INFO Loading flash file
02/07/14 16:29:00:581 INFO Ready to flash!

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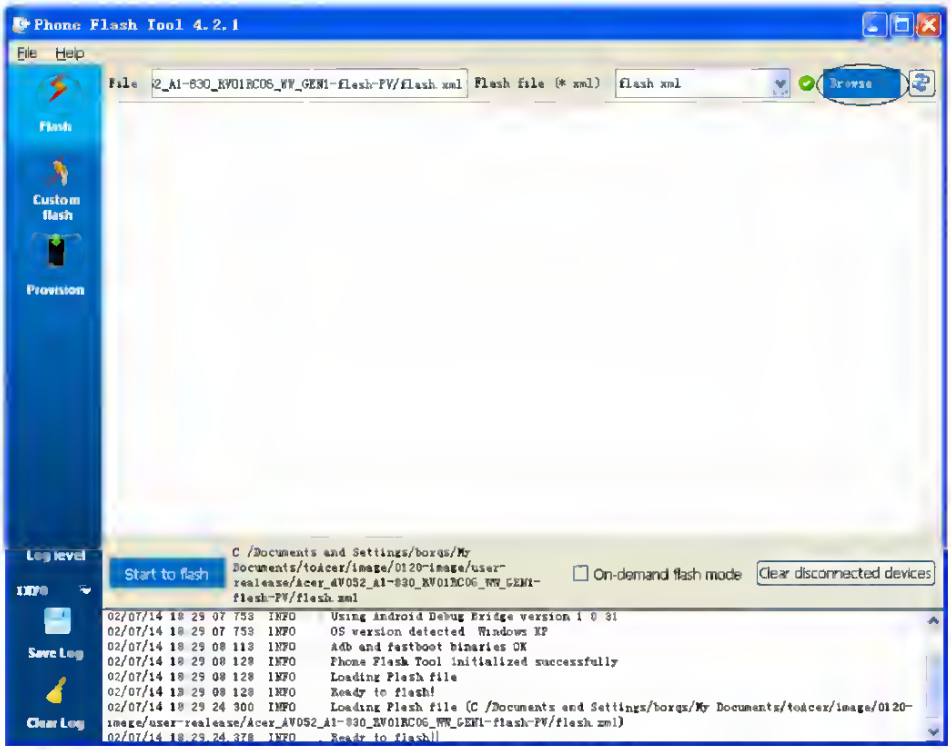

Phone Flash Tool 4.2.1
File Help
Flash
Custom flash
Provision
Log level
INFO
Save Log
Clear Log
Start to flash
On-demand flash mode
Clear disconnected devices
02/07/14 18 29 07 753 INFO Using Android Debug Bridge version 1 0 31
02/07/14 18 29 07 753 INFO OS version detected Windows XP
02/07/14 18 29 08 113 INFO Adb and fastboot binaries OK
02/07/14 18 29 08 128 INFO Phone Flash Tool initialized successfully
02/07/14 18 29 08 128 INFO Loading Flash file
02/07/14 18 29 08 128 INFO Ready to flash!
02/07/14 18 29 24 300 INFO Loading Flash file (C /Documents and Settings/borqs/My Documents/tokcer/image/0120-image/user-realease/Acer_AV052_A1-830_RV01RC06_WW_GEN1-flash-PV/flash.xml)

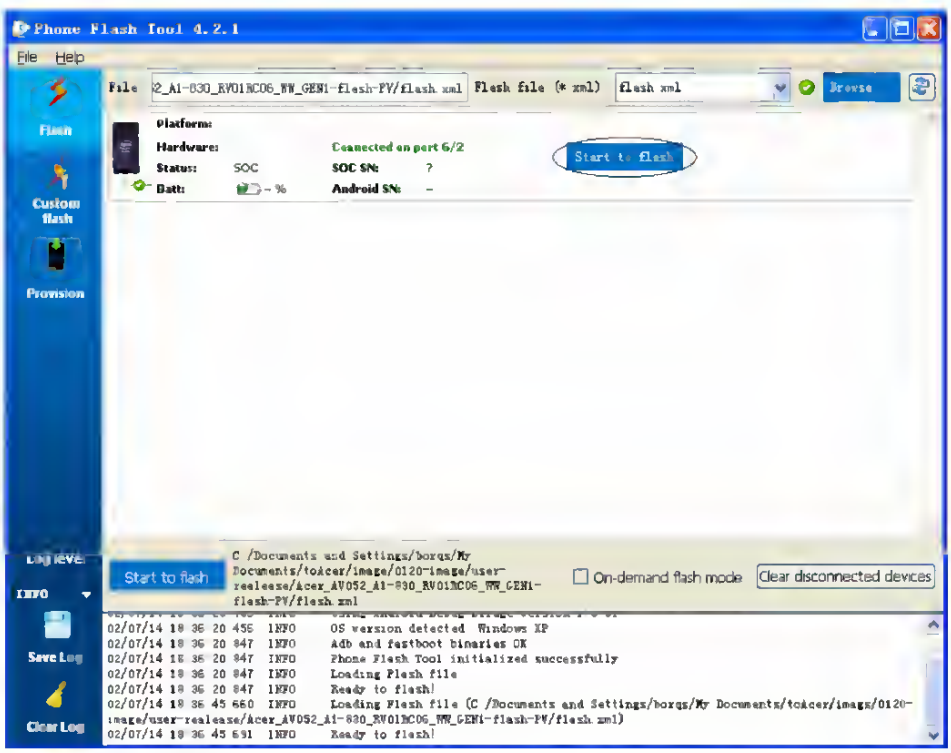
Switch Ducati device to SW download mode.

a) Power off the Ducati.

b) Hold volume down key more than 2 seconds and click power on key to force the Ducati enter SW downloadmode

c) Connectthe USB cable to your device and PC.

d) When you see “start to flash”button become green. Click it to downloadSW.


Phone Flash Tool 4.2.1
File Help
Flash
Custom flash
Provision
Platform:
Hardware:
Status: SOC
Batt: - %
Connected on port 6/2
SOC SN: ?
Android SN: -
Start to flash
Log level
INFO
Save Log
Clear Log
On-demand flash mode
Clear disconnected devices
02/07/14 18 36 20 456 INFO OS version detected Windows XP
02/07/14 18 36 20 847 INFO Adb and fastboot binaries OK
02/07/14 18 36 20 847 INFO Phone Flash Tool initialized successfully
02/07/14 18 36 20 847 INFO Loading Flash file
02/07/14 18 36 20 847 INFO Ready to flash!
02/07/14 18 36 45 660 INFO Loading Flash file (C /Documents and Settings/borqs/My Documents/tokcer/image/0120-image/user-realease/Acer_AV052_A1-830_RV01RC06_WW_GEN1-flash-PV/flash.xml)

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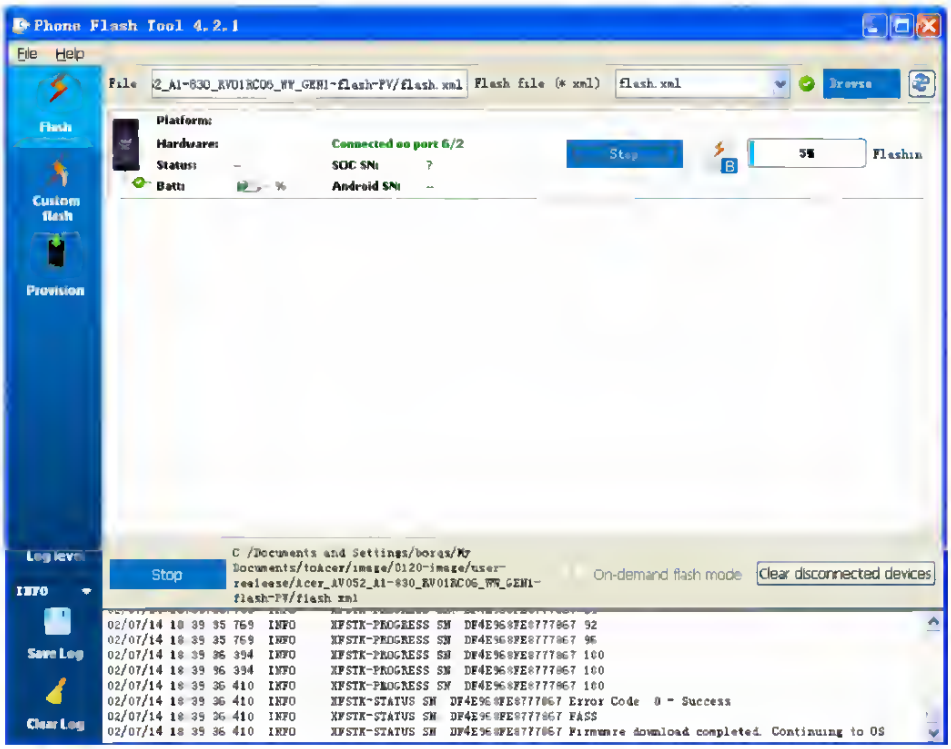

4. After download SW is done, you shall see flashing status bar becomes green with 100% indicator. Unplug the USB cable.

二. Update to Service ROM

1. Open PhoneFlashTool4.2.1.

2. Click Phone flash tool "Browser"button，select flash_reflow_repair.xmlfrom Service ROM directory. Then Phone flash tool will display it is ready to download SW. Here we assume that your Ducati device has EUU image already or has the service ROM image already.

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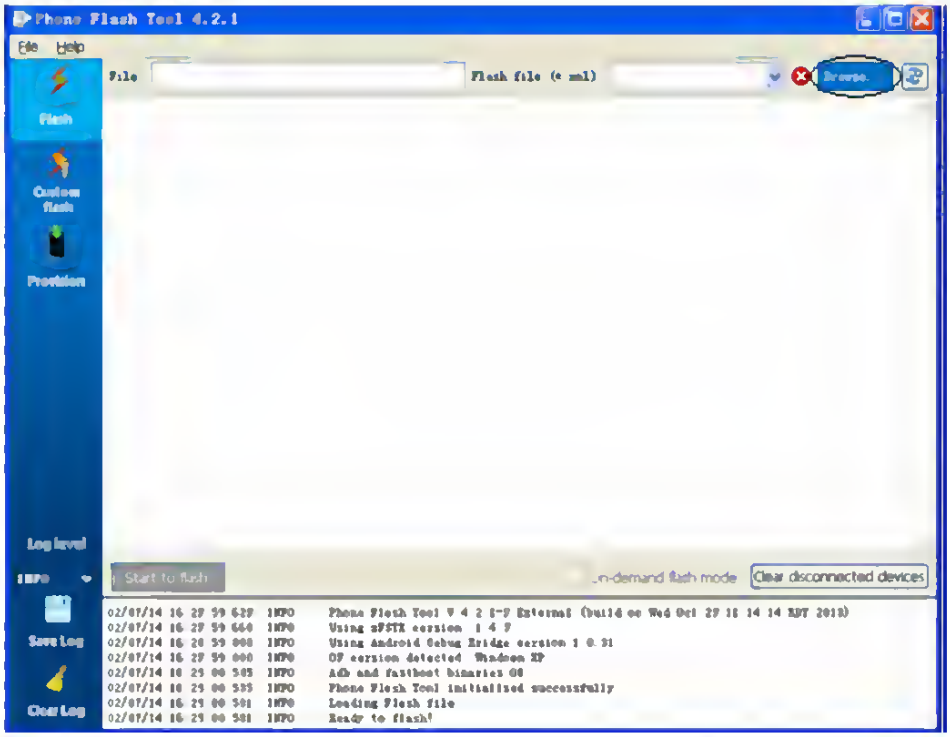
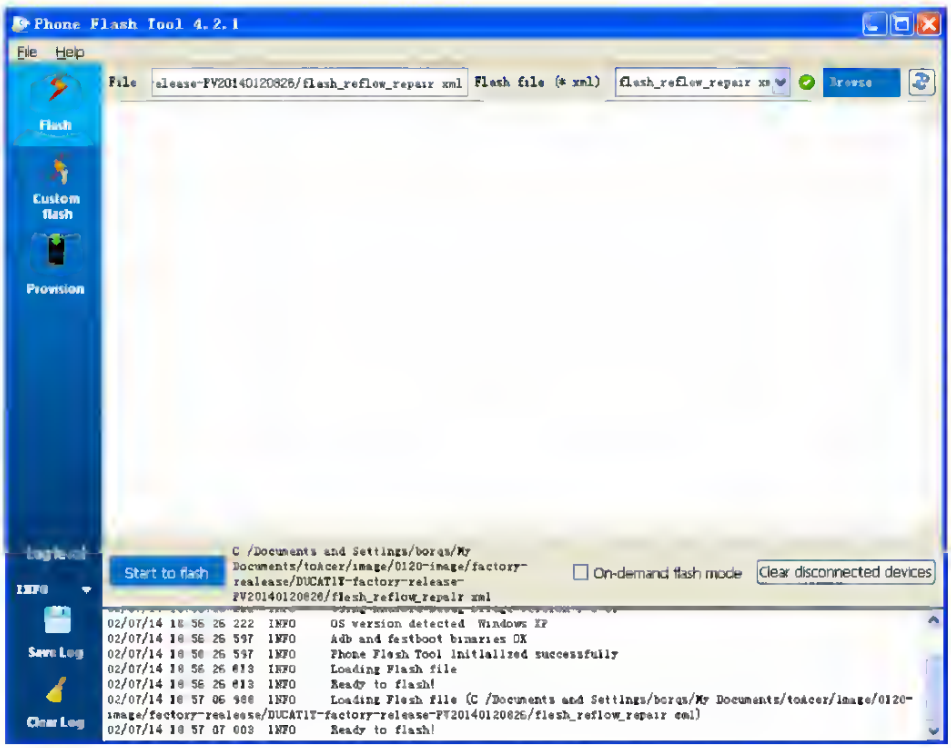

Phone Flash Tool 4.2.1
File Help
Flash
Custom flash
Provision
File
Flash file (* xml)
Browse
Log level
INFO
Start to flash
On-demand flash mode
Clear disconnected devices
Save Log
Clear Log
02/07/14 16 29 59 629 INFO Phone Flash Tool V 4 2 8-9 External (build on Wed Oct 29 15 14 14 EDT 2013)
02/07/14 16 29 59 660 INFO Using nFSTK version 1 4 9
02/07/14 16 29 59 000 INFO Using Android Debug Bridge version 1 0 31
02/07/14 16 29 59 000 INFO OS version detected Windows XP
02/07/14 16 29 00 585 INFO Adb and fastboot binaries OK
02/07/14 16 29 00 585 INFO Phone Flash Tool initialized successfully
02/07/14 16 29 00 581 INFO Loading Flash file
02/07/14 16 29 00 581 INFO Ready to flash!


Phone Flash Tool 4.2.1
File Help
Flash
Custom flash
Provision
File
elease-PV20140120826/flash_reflow_repair xml
Flash file (* xml)
flash_reflow_repair xm
Browse
Log level
INFO
Start to flash
C /Documents and Settings/borqn/My Documents/toAcer/image/0120-image/factory-realease/DUCATIY-factory-release-PV20140120826/flash_reflow_repair xml
On-demand flash mode
Clear disconnected devices
Save Log
Clear Log
02/07/14 16 56 26 222 INFO OS version detected Windows XP
02/07/14 16 56 26 597 INFO Adb and fastboot binaries OK
02/07/14 16 56 26 597 INFO Phone Flash Tool initialized successfully
02/07/14 16 56 26 613 INFO Loading Flash file
02/07/14 16 56 26 613 INFO Ready to flash!
02/07/14 16 57 06 986 INFO Loading Flash file (C /Documents and Settings/borqn/My Documents/toAcer/image/0120-image/factory-realease/DUCATIY-factory-release-PV20140120826/flash_reflow_repair cml)
02/07/14 16 57 07 003 INFO Ready to flash!

3. Switch Ducati device to SW download mode.

a) Power off the Ducati.

b) Hold volume down key more than 2 seconds and click power on key to force the Ducati enter SW downloadmode.

c) Connectthe USB cable to your device and PC.

d) When you see “start to flash”button become green. Click it to downloadSW.

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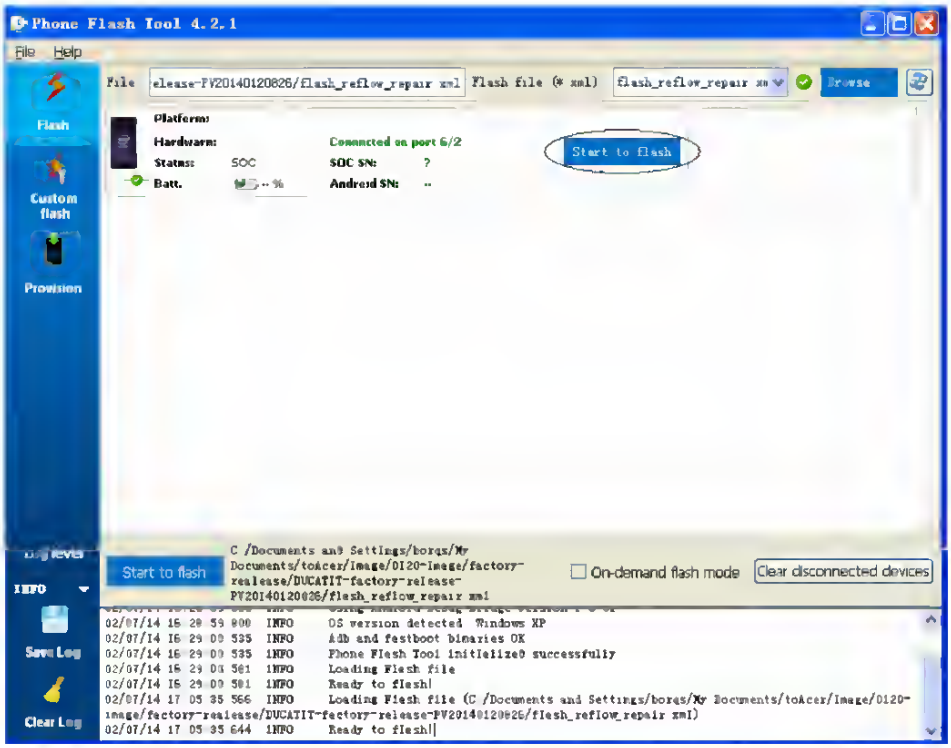

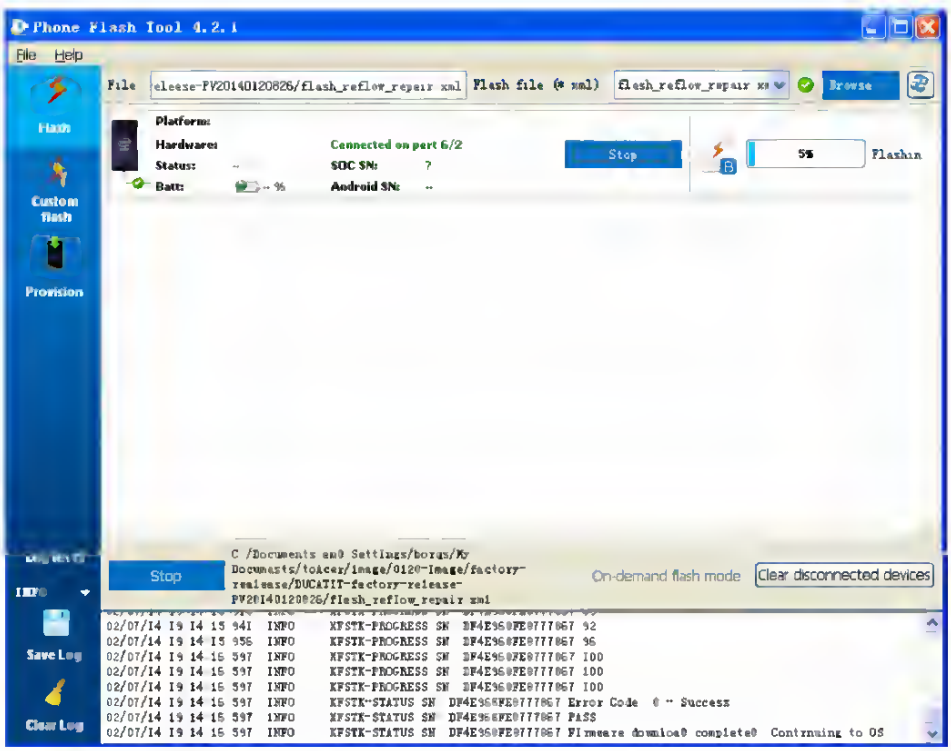

4. After download SW is done, you shall see flashing status bar becomes green with 100% indicator. Unplug the USB cable.

※To run Phone flash tool, your PC must install Net Framework 4.0.

※ During SW downloading, if PC prompts that a new device is found, need install driver, please refer to USB driver---C:\Program Files\Intel Android Device USB driver.

※ During activephone flash tool, if system prompts that can't find wdapi1100.dll, please copy the wdapi1100.dll from service ROM package to C:\WINDOWS\system32\.

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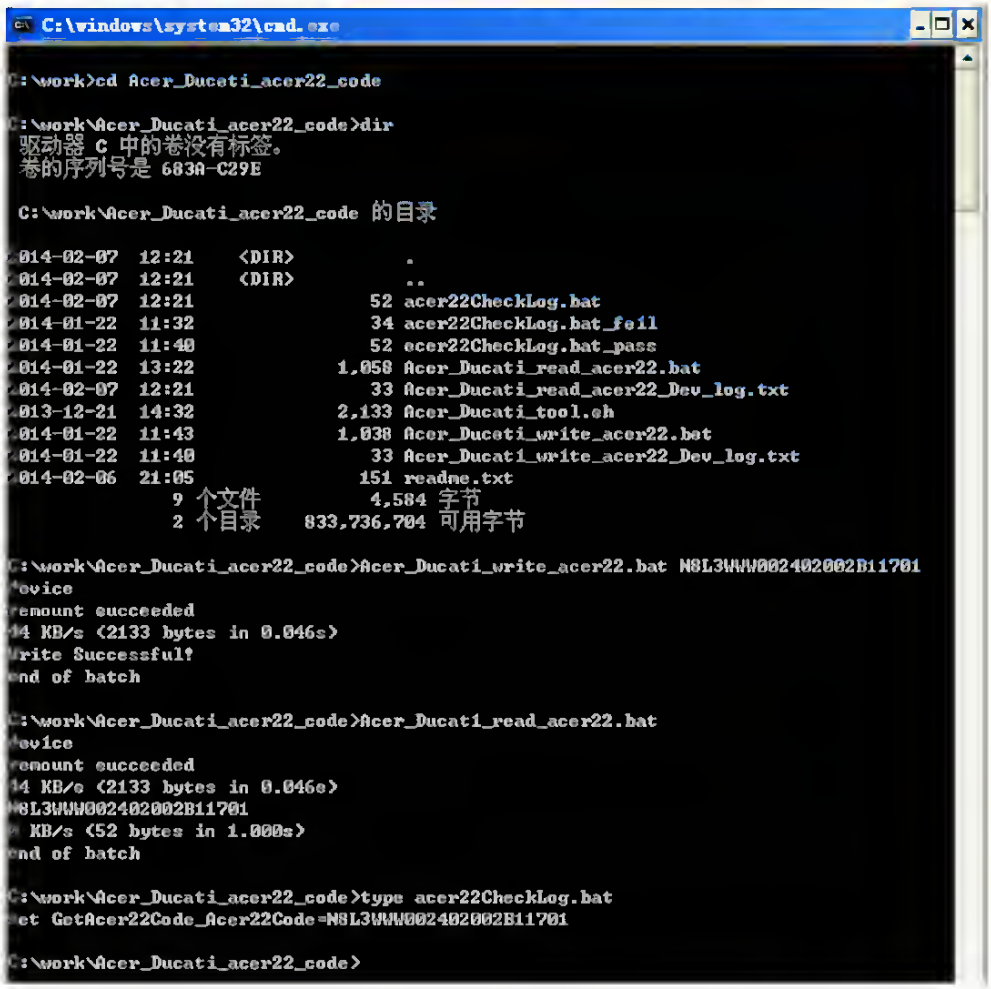
b. Service tool SOP

Re-write Acer 22 code

1. Unzip "Acer_Ducati_acer22_code_v1.0.zip"
2. Open DOS window
3. Cd to Acer_Ducati_acer22_code/ directory that you unzipped, like below:



4. Run command:

   Acer_Ducati_write_acer22.bat N8L3WWW002402002B11701

5. If you want to check what you write, you can run command:

   Acer_Ducati_read_acer22.bat

   Then run command:

   type WIFIcountryCheckLog.bat

   You will see "set GetAcer22Code_Acer22Code=N8L3WWW002402002B11701", that means you tablet's Acer 22 code that you write is "N8L3WWW002402002B11701".

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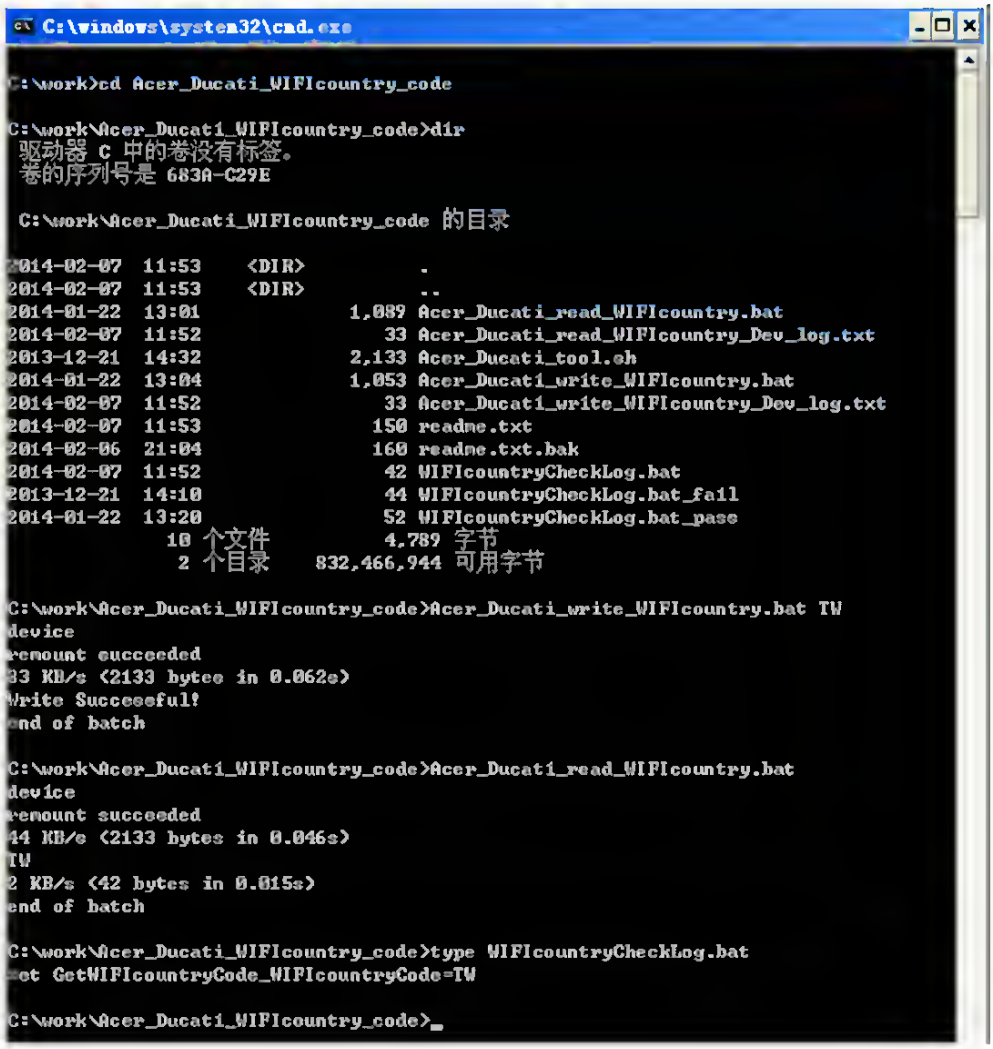
Re-write country code

1. Unzip "Acer_Ducati_WIFIcountry_code_v1.0.zip"
2. Open DO5 window
3. Cd to Acer_Ducati_WIFIcountry_code/ directory that you unzipped, like below:



4. Run command:

Acer_Ducati_write_WIFIcountry.bat TW

5. If you want to check what you write, you can run command:

Acer_Ducati_read_WIFIcountry.bat

Then run command:

type WIFIcountryCheckLog.bat

You will see "set GetWIFIcountryCode_WIFIcountryCode=TW", that means you tablet's WIFI Country code that you write is "TW"

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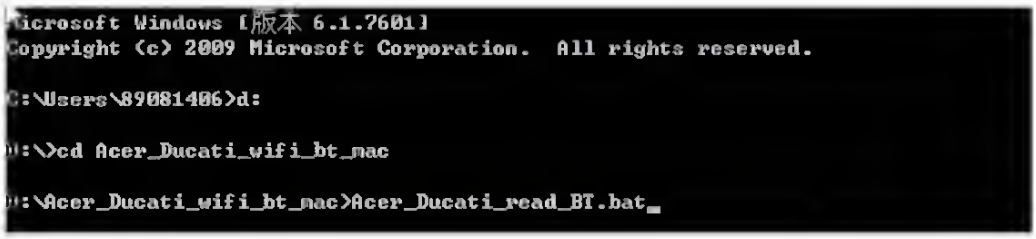
Write/read wifi and BT mac

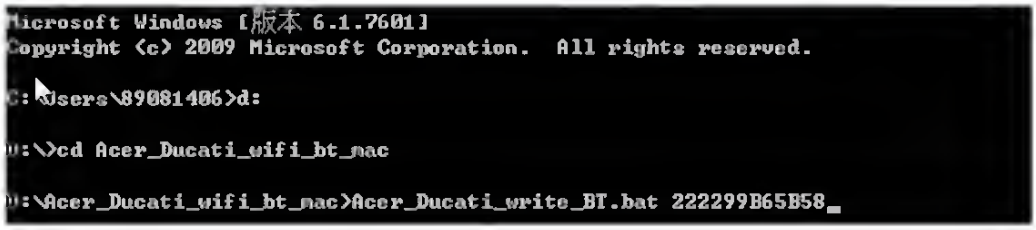
1.Unzip Acer_Ducati_wifi_bt_mac.zip, Open DOS window

2. Cd to Acer_Ducati_WIFIcountry_code

a. Read BT MAC:

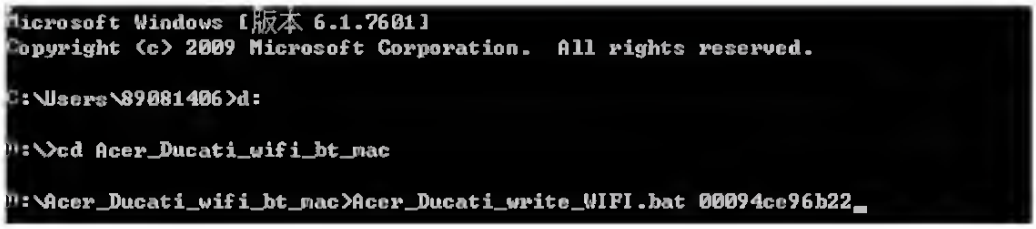


b. Write BT MAC:



c. Read WIFI MAC:

d. Write WIFI MAC:



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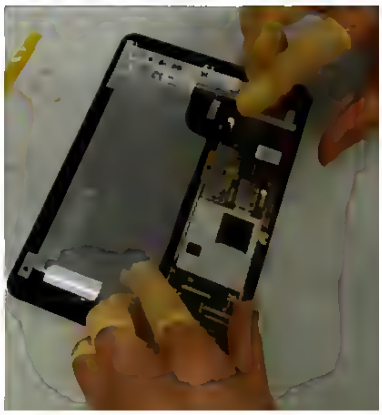
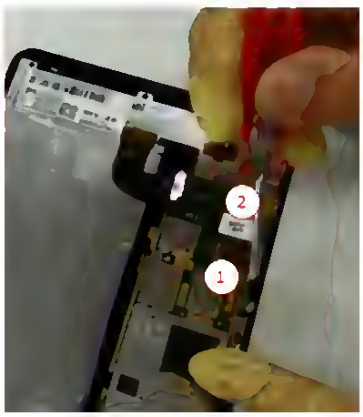
Chapter 3:

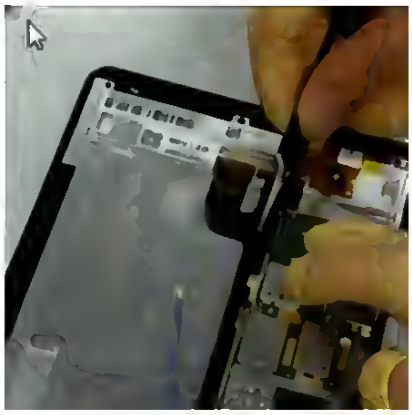
c. Disassembly and Assembly SOP

Assembly:

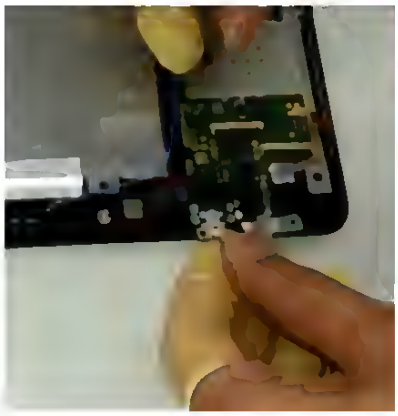
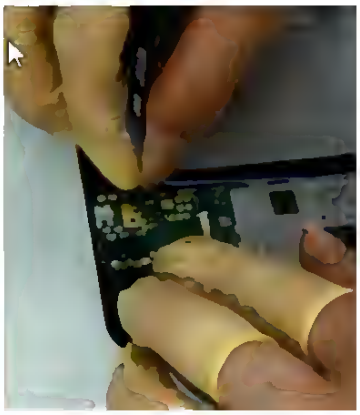
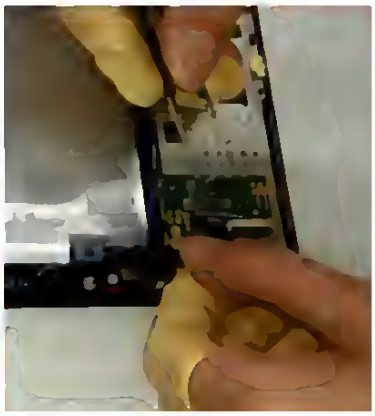
1. Inset LCD FPC to LCM then place M/B on LCD and lock 2 screws for fix M/B

2. Insert LCD FPC and TP FPC to M/B



3. Lock 3 screws to fix shield on M/B , then Insert front and rear camera FPC

1. stick Antenna board on front case and lock antenna connector on carkit , stick tape to fix antenna cable after that .

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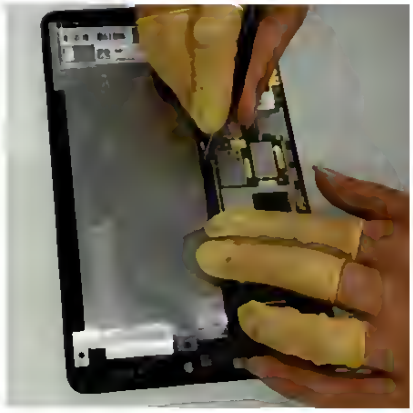
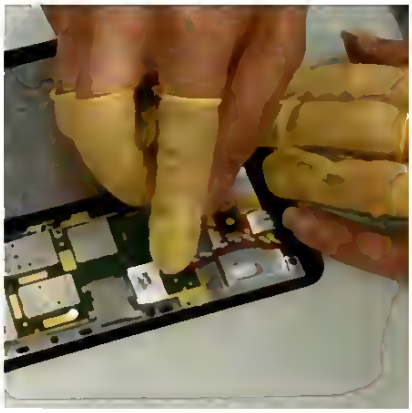
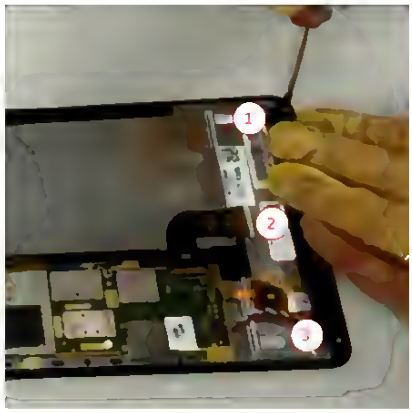
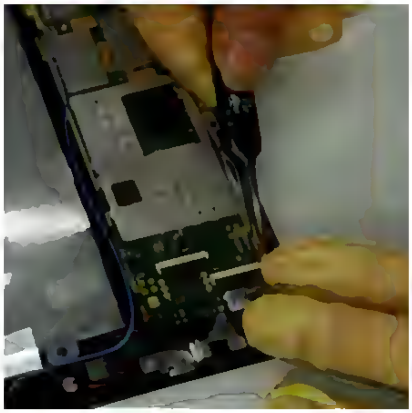


3. Insert speaker to M/B , then lock 3 screws to fix speaker .

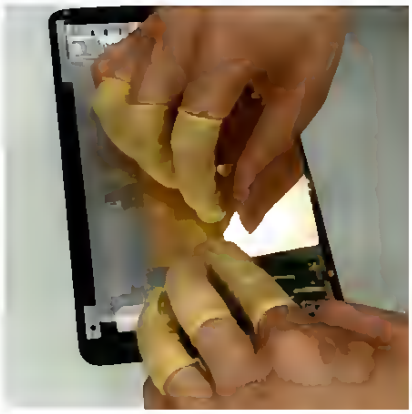


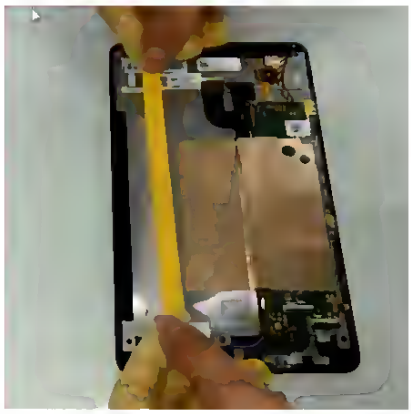


4. Insert side key FPC to M/B



5. Stick Cu FOIL and battery tape





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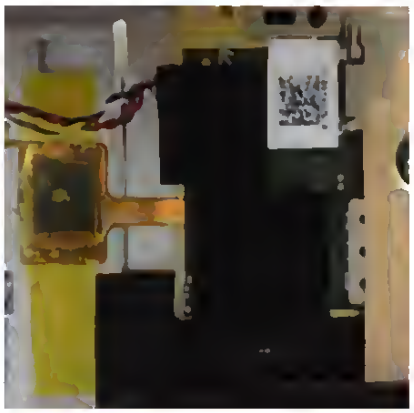
6. Place battery then insert connector to M/B

7. Stick 2 Acetate tapes on below locations .



8. Assemble rear cover to unit

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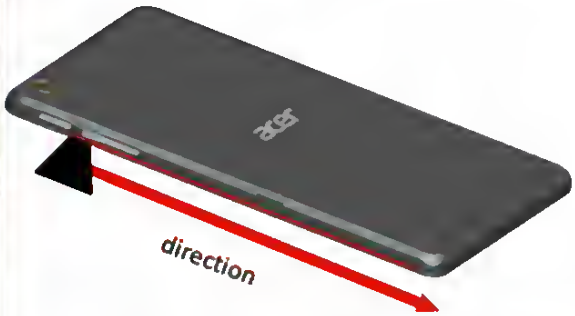
Disassembly:

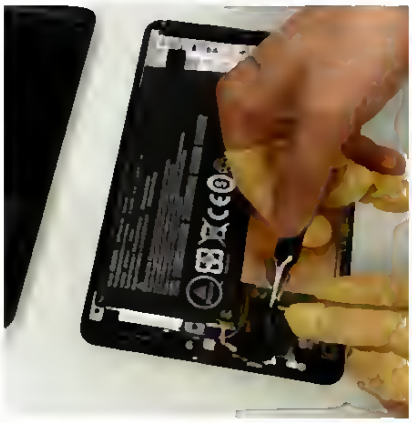
1. Insert the plectrum into gap which next to the side key.

2. gash the gap to open housing



3. uncover the rear cover

4. remove 2 acetate tapes



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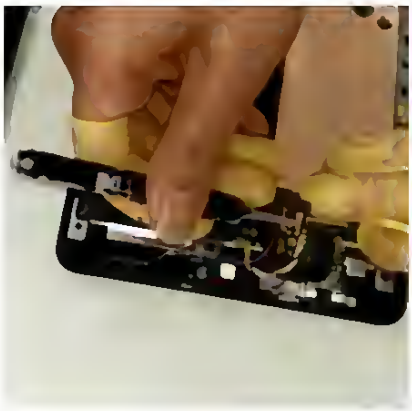
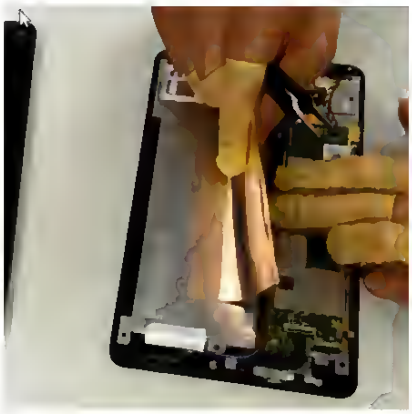
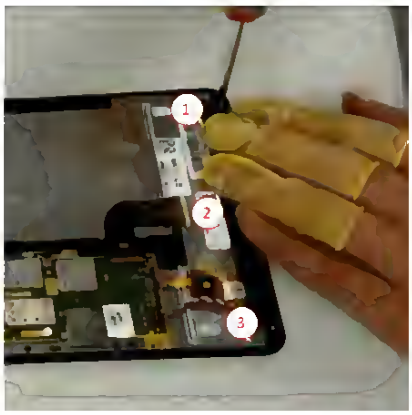
5. unplug battery cable from M/B , then remove battery



6. remove Cu FOIL



7. remove 3 screws from speaker then unplug speaker connector



8. remove tape and antenna board from LCM

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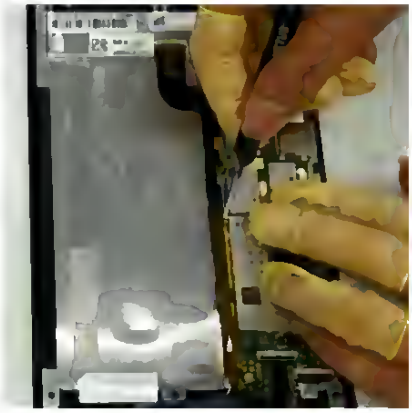
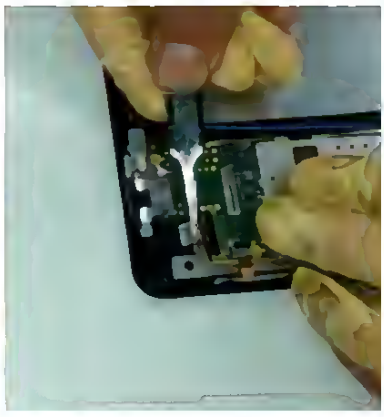
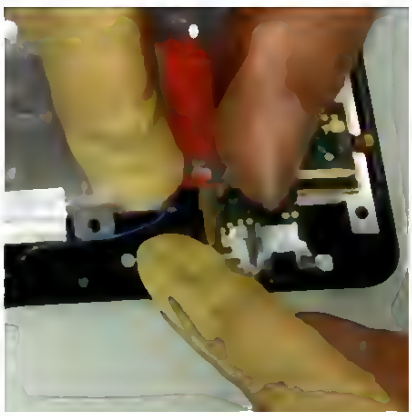


9. unplug the connectors of mic、rear & front camera from M/B



10.unlock 3 screws on shield then remove it .



11.unplug LCD、TP and side key FPC from M/B

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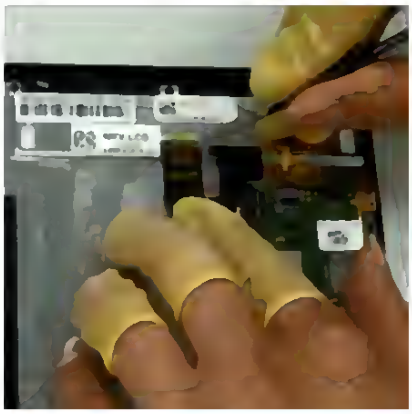
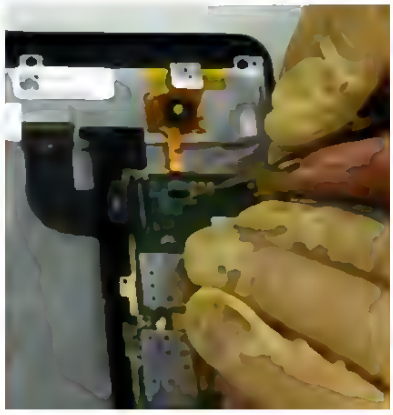
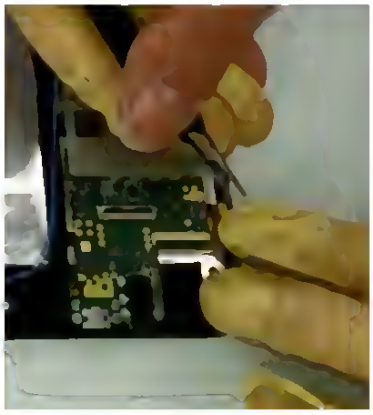
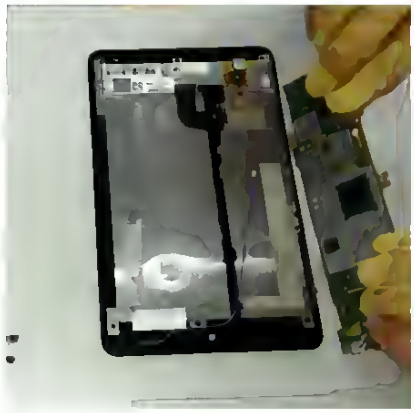




12.unlock 2 screws from M/B them remove M/B from LCM



13.Finish

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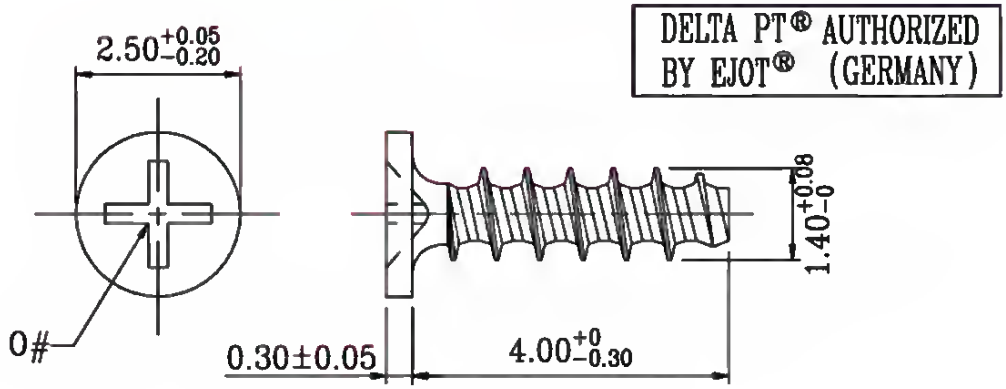
d. Required tools and screws

Electric screw driver

Plastic plectrum

screws



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		1.	MS14040I1I0	SCREW M1.4*4.0-I(ZN)IRON					
		ITEM	PART NO.	DESCRIPTION				MODEL	
		Quanta Computer Inc.						NKD	
		NAME	SCREW M1.4*4.0-I(ZN)IRON					APPROVED SHOUHUA CUI	
RANGE	TOLRENCE	TOL. ±	1 PLC	2 PLC	ANGLE	UNIT	mm	DESIGNED SHOUHUA CUI	
0-10	±0.05	MATERIAL	AISI 1022			SCALE	1:1	DRAWN SHOUHUA CUI	
10-50	±0.10	FINISH	Zinc Plating			DATE	2014-01-24	REV	2A
50-100	±0.15		THE 3RD PROJECTION			DWG. NO.	M14040I11		1/1
100 —	±0.20								

Chapter 4:

Diagnostic Tool SOP

How to Enter in Hardware Testing Mode

Press the MENU button, and click on ICON "HardWareFunctionTest"in APPS, press the button to perform the function that you want to do.as shown in figure 1.1 and figure 1.2.

Figure 1.1

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Figure 1.2

Hardware TestingItems

- Backlight Test
- Key Test
- Front_Camera Test
- Rear_Camera Test
- SD_Card Test
- TP Test
- LCD Test
- Headset Test
- G_Sensor Test
- Charger Test
- Bluetooth Test
- Speaker Test
- Mic Test
- WLAN Test
- GPS Test
- G_Sensor_Calibration Test

Hardware testing items Using Guide

Backlight:

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Backlight test, show backlight Level20-Level120-Level220 successively, and then according to the actual result that you saw to choose PASS or FAIL, as shown in figure 3.1(a).

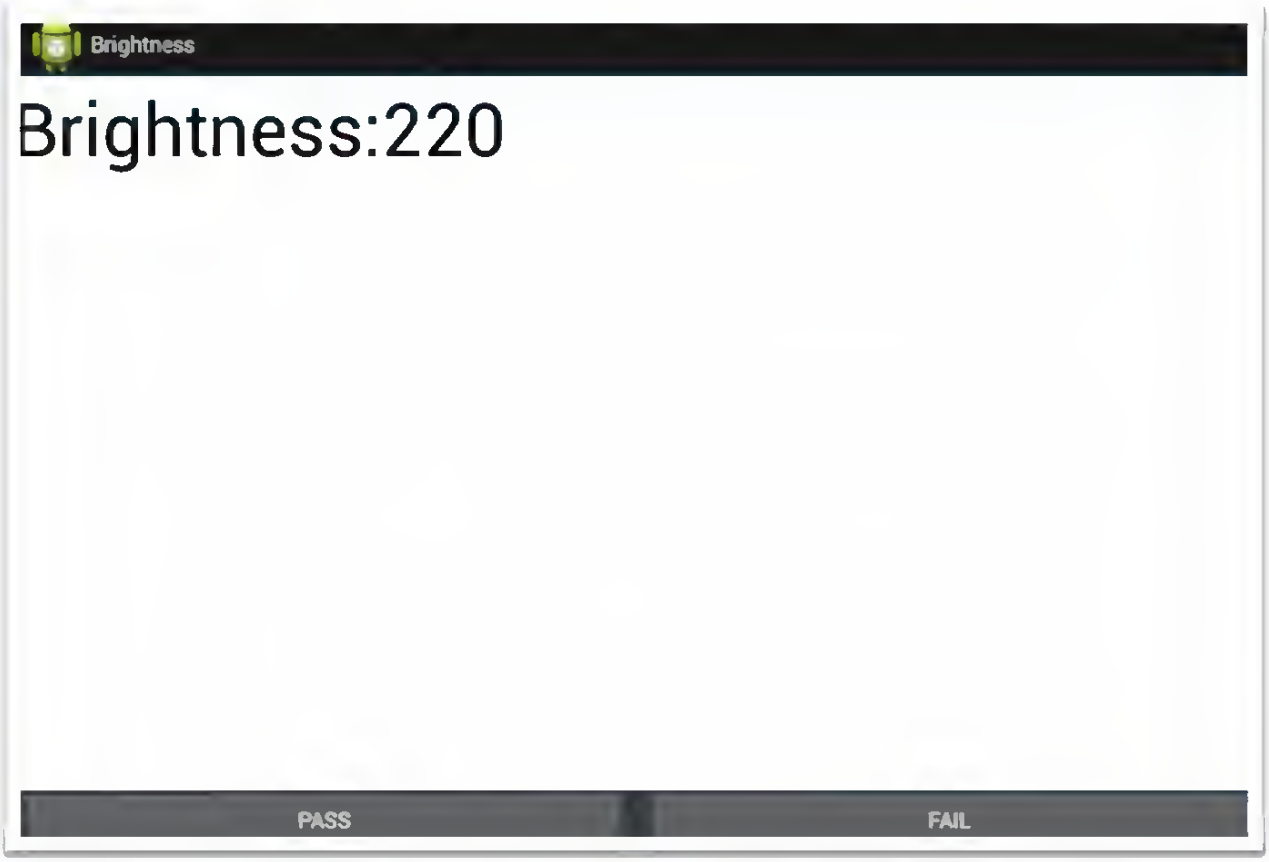

Figure3.1(a)

Green button means PASS, Red button means FAIL, as shown in figure 3.1(b) and 3.1(c).

Figure 3.1(b)

Figure 3.1(c)

KEY:

- Follow the picture's instruction to press related keysuccessively.If the key function is passed then the related key buttonwill disappear.
- Key includes：" VolumeUp" & " Volume Down", Power key didNOTbe tested.
- Two key passed test then please choose PASS otherwise FAIL, as shown in figure 3.2(a).

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Figure 3.2(a)

Green button means PASS, Red button means FAIL, as shown in figure 3.2(b) and 3.2(c).

Figure 3.2(b)

Figure 3.2(c)

Front_Camera:

Front Camera test, click on "Take Photo"button, it should take a picture by front camera, check the picture and according to the actual result that you saw to choose PASS or FAIL.as shown in figure 3.3(a).

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Figure 3.3(a)

Green button means PASS, Red button means FAIL, as shown in figure 3.3(b) and 3.3(c).

Figure 3.3(b)

Figure 3.3(c)

Rear_Camera:

Rear Camera test, click on "Take Photo"button, it should take a picture by rear camera, check the picture and according to the actual result that you saw to choose PASS or FAIL.as shown in figure 3.4(a).

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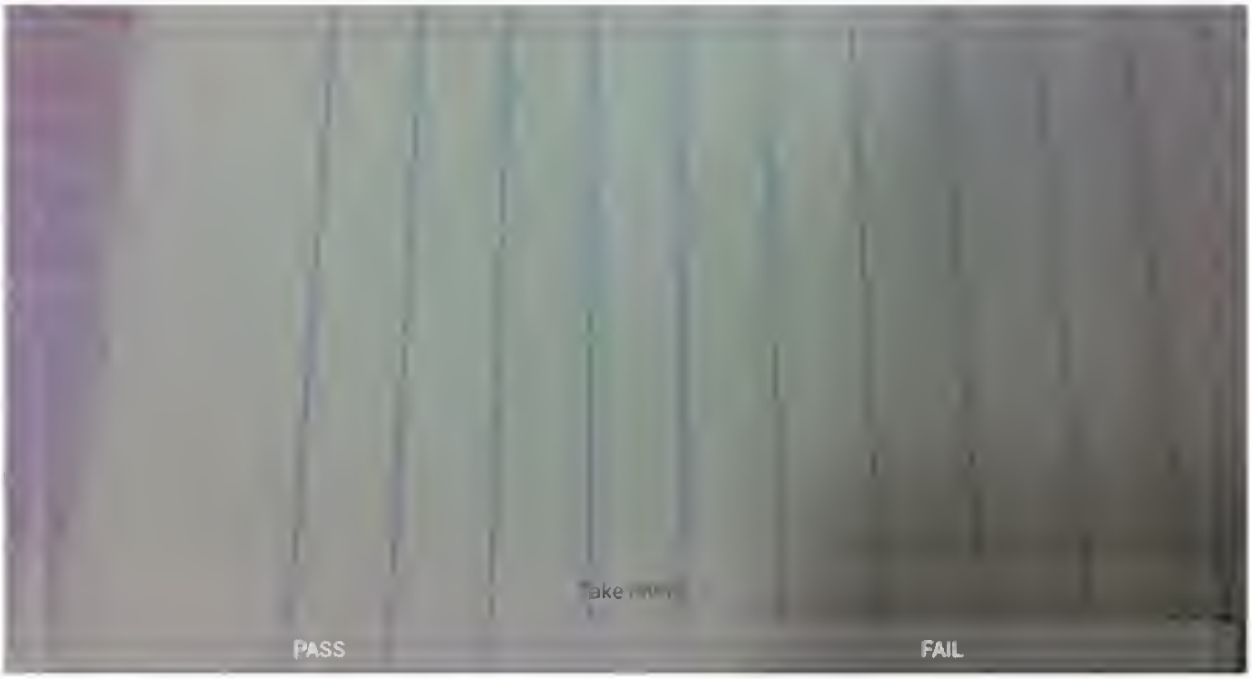

Figure 3.4(a)

Green button means PASS, Red button means FAIL, as shown in figure 3.4(b) and 3.4(c).

Figure 3.4(b)

Figure 3.4(c)

SD_Card:

SD card test, insert MicroSDcard and then according to the test result which be displayed on the screen to choose PASS or FAIL, as shown in figure 3.5(a) and 3.5(b).

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Figure 3.5(a)

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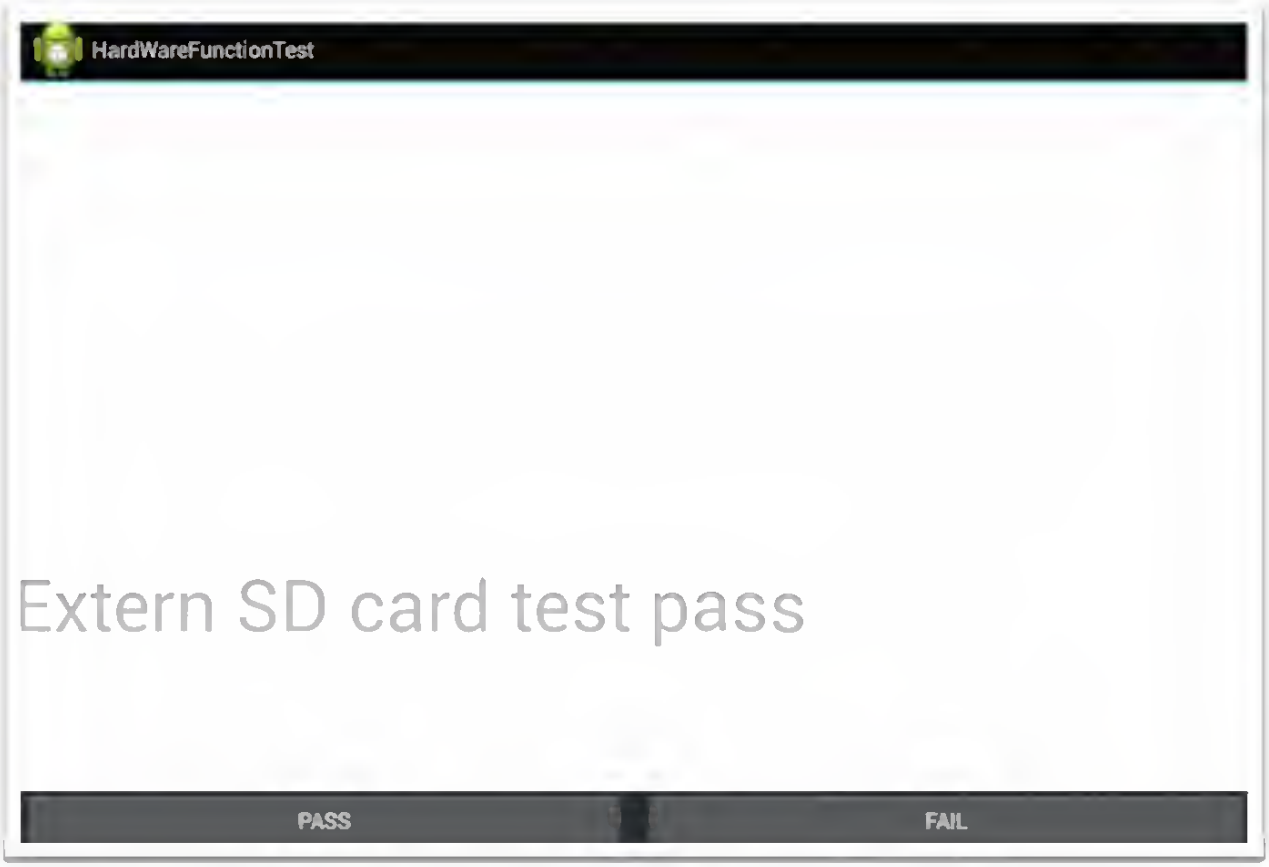

Figure 3.5(b)

Green button means PASS, Red button means FAIL, as shown in figure 3.5(c) and 3.5(d).

Figure 3.5(c)

Figure 3.5(d)

TP:

TP test, random test and then choose PASS or FAIL, as shown in figure 3.6(a).

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Figure 3.6(a)

Green button means PASS, Red button means FAIL, as shown in figure 3.6(b) and 3.6(c).

Figure 3.6(b)

Figure 3.6(c)

LCD:

LCD test, many and different colors(W/B/R/G/B) be displayed to the screen, and then let you choose which color do you see on screen finally, RED or GREEN or BLUE, as shown in figure 3.7(a).

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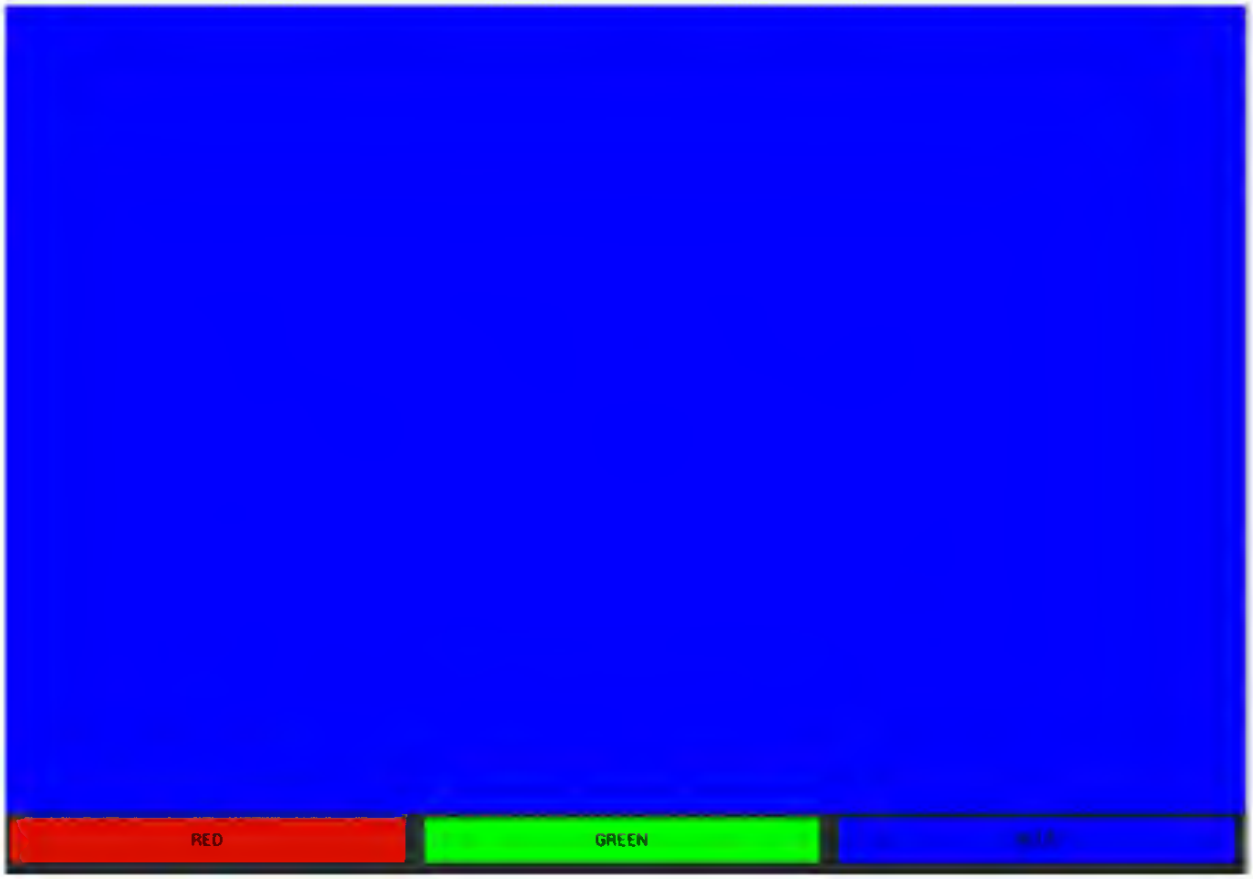

Figure 3.7(a)

Green button means PASS, Red button means FAIL, as shown in figure 3.7(b) and 3.7(c).

Figure 3.7(b)

Figure 3.16(c)

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Chapter 5:
Serial Number Definition

Acer 22 Barcode

Follows Code 128 standard –refer to http://www.adams1.com/pub/russadam/128code.html

Acer 22 Code SN

PPPPPPPPPPYWWSSSSSMMVV

Code	Description
PPPPPPPPPP	Acer Part Number
YWW	3 digit numeric year and week code
SSSSS	5 character unique hexadecimal code by manufacturer base and reset each week (0-9, A, B, C, D, E, F 16 code)
MM	Manufacturer code
VV	English version code

Acer SNID

YWWddddddMM

Code	Description
YWW	3 digit numeric year and week code (as above)
dddddd	6 unique decimal numbers derived from Acer 22 Code SN (SSSSS) Transfer Rule: $S_1S_2S_3S_4S_5$ dddddd = $S_1 * 16^4 + S_2 * 16^3 + S_3 * 16^2 + S_4 * 16^1 + S_5$ Example: Acer FG SN (SSSSS) = 001FD, SNID (dddddd) = $1 * 16^2 + 15 * 16 + 13$ = 000509.
MM	Manufacturer code (as above)

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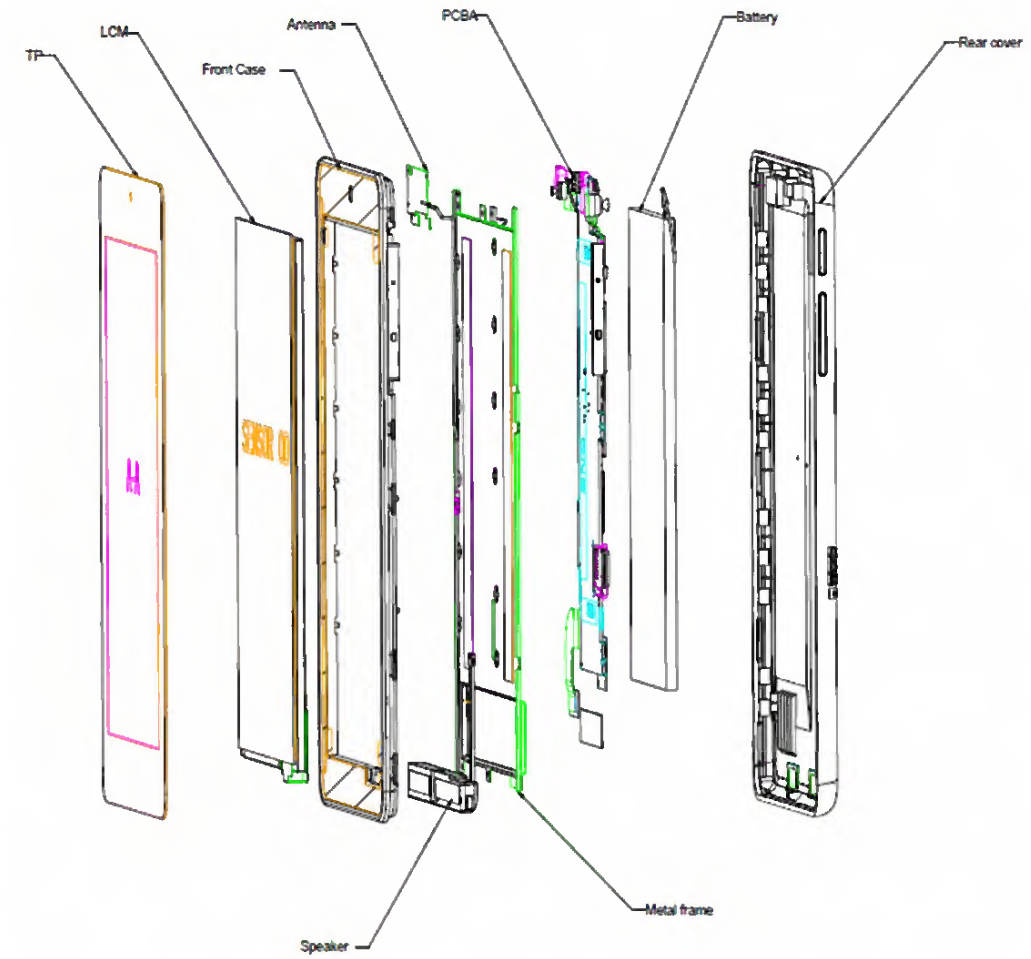
Chapter 6:

a. Exploded Diagram and Description



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b. SPL List

TYPE	CATEGORY	Acer PN	1 Tier PN	S/P Description
10W	Adapter	KP.01001.001	1AC0ZZZ013F	NKD ADP S.3SV 2A DELTA S/P
10W Fix	Adapter	KP.0100H.001	1AC0ZZZ013G	NKD ADP SV/2A AC US S/P
10W Fix	Adapter	KP.0100H.002	1AC0ZZZ013H	NKD ADP SV/2A AC EU S/P
10W Fix	Adapter	KP.0100H.003	1AC0ZZZ013I	NKD ADP SV/2A AC CHINA S/P
1CELL	BATTERY	KT.0010F.001	1BTMZZZ00BV	NKV BATT PACK(MNR 3.BV) S/P
1CELL	BATTERY	KT.0010Z.001	1BTMZZZ00BW	NKV BATT PACK(OSB 3.BV) S/P
ALL SKU	ACCESSORY	S0.L3WN6.001	1HYGZZZ074M	NKD CABLE ASSY MICRO USB S/P
ALL SKU	CABLE	S0.L3WN6.002	1HYGZZZ074N	NKD KB SIDE KEY FPC CABLE S/P
ALL SKU	CABLE	No	1HYGZZZ077Y	NKD LCD FPC CABLE 40V S/P
0.3M Camera	Camera	NC.21411.02Q	1HYGZZZ0779	NKV CCD FRONT (VGA)S/P
2M Camera	Camera 2	NC.21411.02F NC.21411.02J	1HYGZZZ077A	NKV CCD REAR (2M) S/P
ALL SKU	CASE/COVER/BRACKET ASSEMBLY	33.L3WN6.001	1HYGZZZ074W	NKD METAL USB COVER S/P
ALL SKU	CASE/COVER/BRACKET ASSEMBLY	No	1HYGZZZ077P	NKV LCD COVER ASSY S/P
ALL SKU	MAINBOARD	No	11MBBZZ000L	NKD MB ASSY W/CPU 1.6GHZ(BG) S/P
ALL SKU	MAINBOARD	No	11MBBZZ000M	NKD MB ASSY W/CPU 1.6GHZ(16G) S/P
ALL SKU	MISCELLANEOUS	47.L3WN6.01S	1HYGZZZ07SG	NKD WATERPROOF LABEL PA S/P
ALL SKU	MISCELLANEOUS	47.L3WN6.016	1HYGZZZ07SH	NKD LBL PL SEAL S/P
ALL SKU	MISCELLANEOUS	47.L3WN6.010	1HYGZZZ07SB	NKD MYLAR PCB S/P
ALL SKU	MISCELLANEOUS	No	1HYGZZZ077G	NKV ACETATE TAPE TOP S/P
ALL SKU	MISCELLANEOUS	No	1HYGZZZ077H	NKV CU FOIL SHIELD CPU S/P
ALL SKU	MISCELLANEOUS	No	1HYGZZZ077I	NKV TAPE LCM ZIP S/P
ALL SKU	MISCELLANEOUS	No	1HYGZZZ077J	NKV TAPE BTM S/P
~~ALL SKU~~	~~MISCELLANEOUS~~	~~No~~	~~1HYGZZZ077K~~	~~NKV TAPE BATTERY CABLE S/P~~
ALL SKU	MISCELLANEOUS	No	1HYGZZZ077L	NKV TAPE MIDDLE HOLDER CABLE S/P
ALL SKU	MISCELLANEOUS	No	1HYGZZZ077M	NKV ADHESIVE R BATTERY S/P
ALL SKU	MISCELLANEOUS	No	1HYGZZZ077N	NKV ADHESIVE L BATTERY S/P
ALL SKU	SCREW	86.L3WN6.001	1HYGZZZ07SI	NKD SCREW M1.4*4.0-I(ZN)IRON S/P
ALL SKU		No	1HYGZZZ077B	NKV MICROPHONE S/P
ALL SKU		No	1HYGZZZ077D	NKV SPK ASSYS/P
ALL SKU		No	1HYGZZZ077F	NKV ANTENNA MAIN(GPS,WIFI) S/P
H7WXGA/TP2	LCD		1LDTZZZ032I	NKV LCD 7" W/TP ASSY (HLT) IPS, S/P
H7WSVGA/TP2	LCD		1LDTZZZ032J	NKV LCD 7" W/TP ASSY (AVD)TN, S/P

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H7WXGA/TP2	LCD		1LDTZZZ032K	NKV LCD 7" W/TP ASSY (AVD)IPS, S/P
H7WSVGA/TP2	LCD		1LDTZZZ032L	NKV LCD 7" W/TP ASSY (GT)TN, S/P
Tablet Adapter-EU	ACCESSORY	XZ.70200.181	1HYGZZZ074K	NKD AC POWER CONVERTER(EU) S/P
Tablet Adapter-UK	ACCESSORY	XZ.70200.182	1HYGZZZ074J	NKD AC POWER CONVERTE(UK) S/P
Tablet Adapter-US	ACCESSORY	HC.70211.004	1HYGZZZ074L	NKD AC POWER CONVERTER(US) S/P

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